

PHYSICS REVIEW

- |              |  |  |
|--------------|--|--|
| 1.           | A  |  |
| 2.           | C  |  |
| 3.           | A  |  |
| 4.           | A  |  |
| 5.           | B  |  |
| 6.           | A  |  |
| 7.           | D  |  |
| 8.           | B  |  |
| 9.           | 2.66 m   |  |
| 10.          | B  |  |
| 11.          | A  |  |
| 12.          | A  |  |
| 13.          | 1.A, 2.B, 3.E, 4.D, 5.C  |  |
| 14.          | 1st Law: Energy is neither created nor destroyed, only transferred   |  |
| 15. (p. 158) | <p>2nd Law: In any energy conversion, some energy is lost as waste (heat)</p> <p>Joule tied a string around a cylinder which was attached to a stirrer and placed in a beaker of water. The other end of the string was attached to a weight &amp; allowed to drop. When the weight dropped, the string unwound, causing the cylinder to turn &amp; the water to stir. The <math>\downarrow E</math> applied to the water, increased the average kinetic <math>E</math> of the water molecules, which <math>\uparrow</math> temp. (<math>\therefore E = \text{WORK}</math>).</p> |  |
| 16.          | A  |  |
| 17.          | D  |  |
| 18.          | C  |  |
| 19.          | B  |  |
| 20.          | A  |  |

# PHYSICS REVIEW CONT.

21. D

22. D

23. B

24. B

25. D

26. A

27. D

28. B

29. C

30. C

31. A

32. C

33. D

34. B

35. A

36. C

37. B

38. C

39. A